HIGH DOSE RADIATION TEST REPORT RHP50000-CSL

May 2025

Generic

Radiation Test Report	
Product:	RHP50000-CSL
Gamma:	0,30k
Gamma Source:	Co60/TM1019 Condition A
Dose Rate:	158 Rad/s
Facilities:	VPT RAD
Tested:	March 18th, 2025

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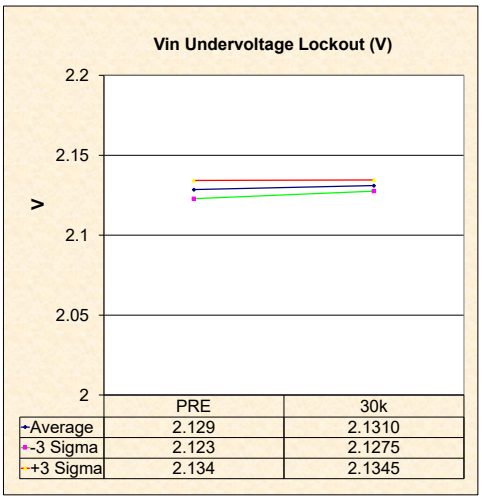
		Regulated Feedback Voltage (mV)		Feedback Voltage Line Regulation (%/V)		Bottom Switch Current Limit (A)	
	SN	PRE	Post	PRE	Post	PRE	Post
CTRL	26	499.634	499.633	0.00880	0.00885	13.950	13.950
30k	5	499.814	499.903	0.00796	0.00915	14.200	14.200
	6	499.224	499.383	0.00642	0.00636	14.050	14.300
	7	500.184	500.295	0.00609	0.00972	14.000	13.950
	8	500.300	500.470	0.00638	0.00623	14.200	14.150
	Min	499.2245	499.3830	0.00609	0.00623	14.0000	13.9500
	Max	500.3001	500.4696	0.00796	0.00972	14.2000	14.3000
	Mean	499.8808	500.0125	0.00671	0.00786	14.1125	14.1500
	Std. Dev	0.4841	0.4820	0.00085	0.00183	0.1031	0.1472
	Mean - 3 Sigma	498.4284	498.5666	0.00417	0.00239	13.8033	13.7084
	Mean + 3 Sigma	501.3332	501.4584	0.00925	0.01334	14.4217	14.5916

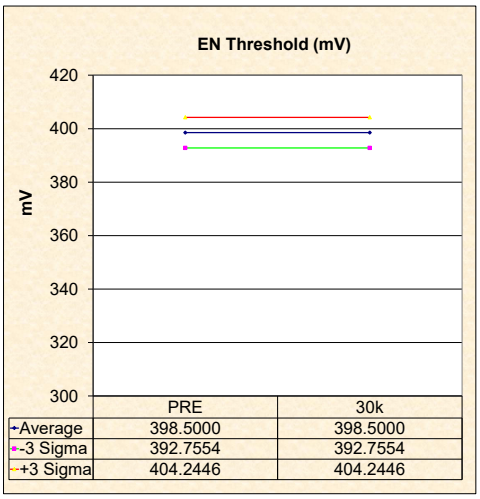
		EN Threshold (mV)		Vin Undervoltage Lockout (V)		PGOOD Hysterisis (%)	
	SN	PRE	Post	PRE	Post	PRE	Post
CTRL	26	400.000	400.000	2.128	2.128	0.878	0.869
30k	5	400.000	400.000	2.130	2.132	0.867	0.869
	6	400.000	400.000	2.130	2.132	0.878	0.876
	7	398.000	398.000	2.126	2.130	0.926	0.909
	8	396.000	396.000	2.128	2.130	0.912	0.847
	Min	396.0000	396.0000	2.126	2.1300	0.8672	0.8472
	Max	400.0000	400.0000	2.130	2.1320	0.9257	0.9086
	Mean	398.5000	398.5000	2.129	2.1310	0.8958	0.8751
	Std. Dev	1.9149	1.9149	0.002	0.0012	0.0276	0.0254
	Mean - 3 Sigma	392.7554	392.7554	2.123	2.1275	0.8130	0.7989
	Mean + 3 Sigma	404.2446	404.2446	2.134	2.1345	0.9785	0.9514

		PGOOD Input Threshold (mV)		Switching Frequency (MHz)		Synchronization Frequency Range , RT=274K, VIN=3.3V (MHz)	
	SN	PRE	Post	PRE	Post	PRE	Post
CTRL	26	446.00	445.00	1.960	1.959	2.008	2.009
30k	5	434.50	435.50	1.966	1.966	2.008	2.002
	6	419.50	419.00	2.009	2.002	2.010	2.003
	7	438.00	440.00	1.980	1.977	1.977	1.976
	8	434.00	437.00	1.984	1.982	1.995	1.984
	Min	419.50	419.0000	1.9655	1.9656	1.9770	1.9759
	Max	438.00	440.0000	2.0086	2.0022	2.0100	2.0028
	Mean	431.50	432.8750	1.9844	1.9816	1.9975	1.9911
	Std. Dev	8.20	9.4373	0.0179	0.0153	0.0153	0.0134
	Mean - 3 Sigma	406.91	404.5631	1.9306	1.9356	1.9515	1.9510
	Mean + 3 Sigma	456.09	461.1869	2.0383	2.0276	2.0435	2.0312

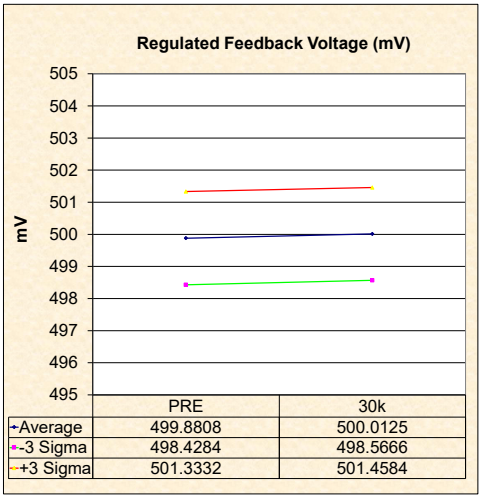
		Default Frequency, RT=VIN=2.25V (MHz)		Default Frequency, RT=VIN=5.5V (MHz)	
	SN	PRE	Post	PRE	Post
CTRL	26	1.913	1.914	2.092	2.093
30k	5	1.900	1.894	2.101	2.093
	6	1.904	1.898	2.105	2.097
	7	1.873	1.873	2.066	2.063
	8	1.887	1.878	2.088	2.075
	Min	1.8733	1.8730	2.0663	2.0634
	Max	1.9038	1.8977	2.1050	2.0966
	Mean	1.8909	1.8856	2.0900	2.0820
	Std. Dev	0.0139	0.0120	0.0175	0.0155
	Mean - 3 Sigma	1.8494	1.8495	2.0376	2.0354
	Mean + 3 Sigma	1.9325	1.9218	2.1423	2.1287



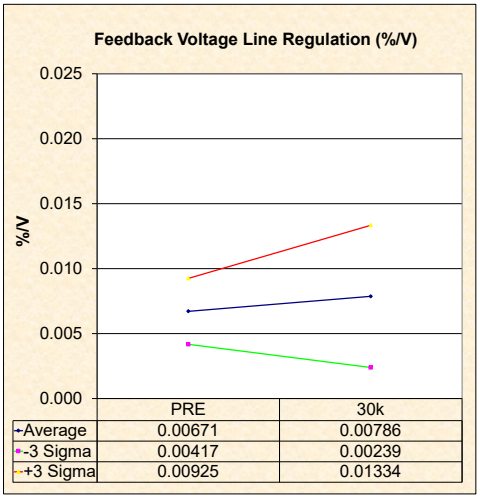
	PRE	30k
Average	2.129	2.1310
-3 Sigma	2.123	2.1275
+3 Sigma	2.134	2.1345



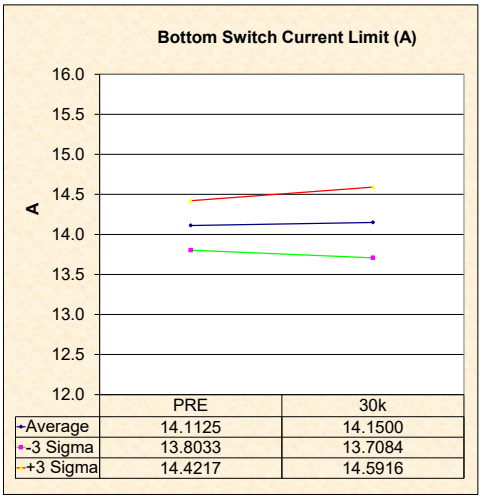
	PRE	30k
Average	398.5000	398.5000
-3 Sigma	392.7554	392.7554
+3 Sigma	404.2446	404.2446



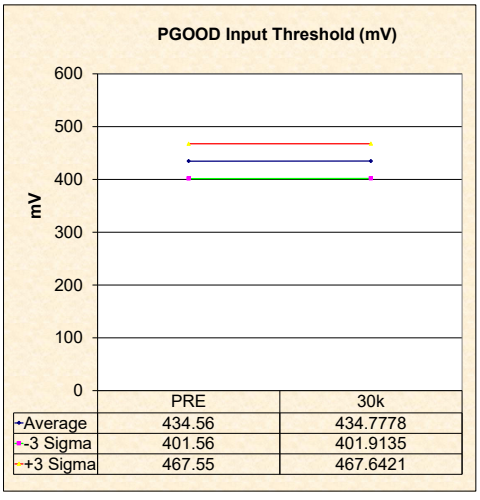
	PRE	30k
Average	499.8808	500.0125
-3 Sigma	498.4284	498.5666
+3 Sigma	501.3332	501.4584



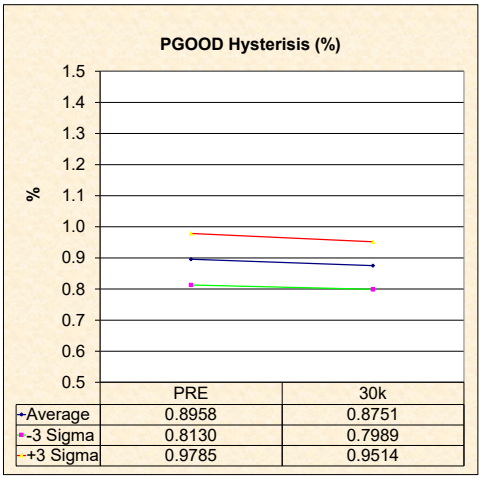
	PRE	30k
Average	0.00671	0.00786
-3 Sigma	0.00417	0.00239
+3 Sigma	0.00925	0.01334



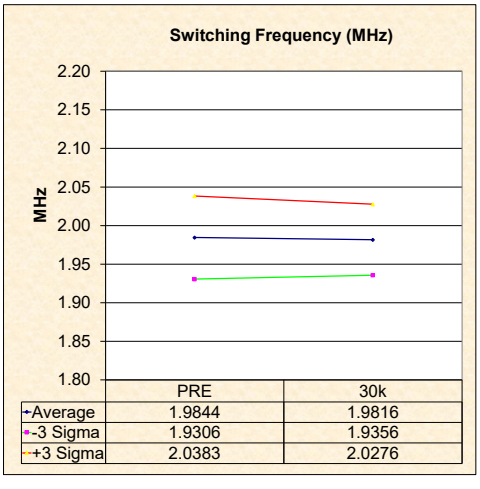
	PRE	30k
Average	14.1125	14.1500
-3 Sigma	13.8033	13.7084
+3 Sigma	14.4217	14.5916



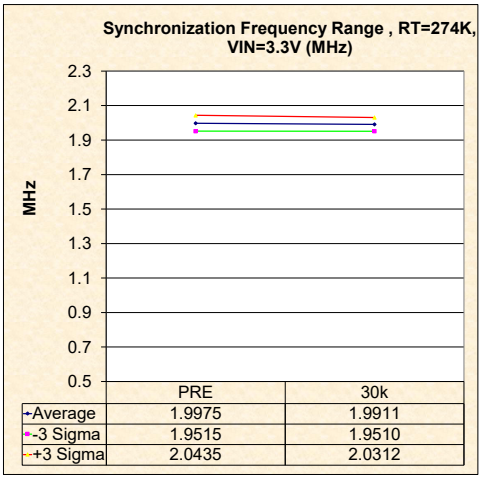
	PRE	30k
Average	434.56	434.7778
-3 Sigma	401.56	401.9135
+3 Sigma	467.55	467.6421



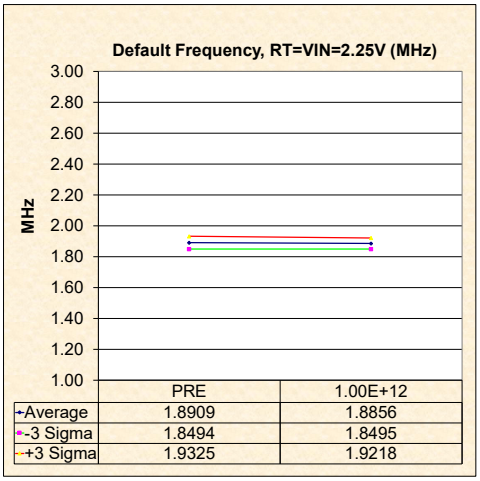
	PRE	30k
Average	0.8958	0.8751
-3 Sigma	0.8130	0.7989
+3 Sigma	0.9785	0.9514



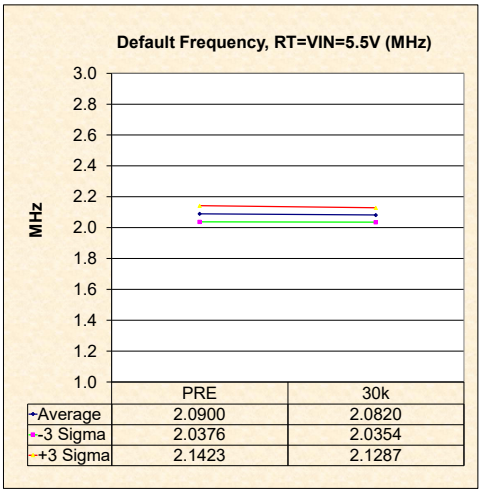
	PRE	30k
Average	1.9844	1.9816
-3 Sigma	1.9306	1.9356
+3 Sigma	2.0383	2.0276



	PRE	30k
Average	1.9975	1.9911
-3 Sigma	1.9515	1.9510
+3 Sigma	2.0435	2.0312



	PRE	1.00E+12
Average	1.8909	1.8856
-3 Sigma	1.8494	1.8495
+3 Sigma	1.9325	1.9218



	PRE	30k
Average	2.0900	2.0820
-3 Sigma	2.0376	2.0354
+3 Sigma	2.1423	2.1287